


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M STREET, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date September 6, 2019			EPA Reg. No./File Symbol 86203-8	Page 1 of 16	
Applicant's/Registrant's Name & Address MITSUI CHEMICALS AGRO, INC. c/o Landis International, Inc. P. O. Box 5126 Valdosta, GA 31603-5126			Product DINOTEFURAN TECHNICAL		
Ingredient DINOTEFURAN (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group A - Product Identity, Composition and Analysis Test Guidelines					
830.1550	Product Identity Composition	45639701 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1600	Description of Materials	45639701 (T) 46802404 (T) 50457101 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1620	Description of Production Process	46802404 (T) 45639701 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1650	Description of Formulation Process	45639701 (T) 46802404 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1670	Discussion of Formulation of Impurities	45639701 (T) 46802404 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1700	Preliminary Analysis	45639703 (T) 46802401 (T) 46802402 (T) 46802403 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1750	Certified Limits	45639703 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1800	Enforcement Analytical Methods	45639703 (T)	MITSUI CHEMICALS, INC.	OWN	
830.1900	Submittal of Samples	--	--	NA	
Group B - Physical/Chemical Properties Test Guidelines					
830.6302	Color	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6303	Physical State	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6304	Odor	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6313	Stability to normal and elevated temperatures, metals, and metal ions	46403801 (T) 45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
Signature 			Name and Title Timothy Joseph Regulatory Agent		Date September 6, 2019

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.6314	Oxidization/Reduction	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6315	Flammability	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6316	Explodability	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6317	Storage Stability	45891617 (T) 46133601 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6319	Miscibility	--	--	NA	
830.6320	Corrosion Characteristics	45891617 (T) 46133601 (T)	MITSUI CHEMICALS, INC.	OWN	
830.6321	Dielectric Breakdown Voltage	--	--	NA	
830.7000	pH	45654201 (T)	MITSUI CHEMICALS, INC.	OWN	
830.7050	UV/Visible Absorption	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
830.7100	Viscosity	--	--	NA	
830.7200	Melting Point	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.7220	Boiling Point	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
830.7300	Density/Relative Density/Bulk Density	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
830.7370	Dissociation Constant	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
830.7550	Partition coefficient (<i>n</i> -octanol/water)	45639702 (T) 45639704 (MNG) 45639705 (DN)	MITSUI CHEMICALS, INC.	OWN	
830.7840	Water Solubility	45639702 (T) 45639706 (MNG) 45639707 (DN)	MITSUI CHEMICALS, INC.	OWN	
830.7950	Vapor Pressure	45639702 (T)	MITSUI CHEMICALS, INC.	OWN	
Spray Drift Test Guidelines					
840.1100	Spray Droplet Size Spectrum	45639708 (T)	MITSUI CHEMICALS, INC.	OWN	
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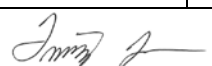
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group A - Aquatic Fauna Test Guidelines					
850.1010	Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids	45639709 (T) 45639710 (DN)	MITSUI CHEMICALS, INC.	OWN	
850.1025	Oyster Acute Toxicity Test (Shell Deposition)	45639711 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1035	Mysid Acute Toxicity Test	45639712 (T) 45639713 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1075	Fish Acute Toxicity Test, Freshwater and Marine	45639714 (T) 45639715 (T) 45639716 (T) 45639717 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1300	Daphnid Chronic Toxicity Test	45639718 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1350	Mysid Chronic Toxicity Test	48680006 (T) 49138302 (T)	MITSUI CHEMICALS AGRO, INC.	OWN	
850.1400	Fish Early-Life Stage Toxicity Test (freshwater)	45639719 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1735	Whole Sediment Acute Toxicity Invertebrates, Freshwater	50355501 (T)	MITSUI CHEMICALS, INC.	OWN	
850.1790	Chironomid Sediment Toxicity Test	50355502 (T)	MITSUI CHEMICALS AGRO, INC.	OWN	
Group B - Terrestrial Wildlife Test					
850.2100	Avian Acute Oral Toxicity Test	45639720 (T) 47353601 (T) 49518901 † (T)	MITSUI CHEMICALS, INC. ‡MITSUI CHEMICALS AGRO, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group B - Terrestrial Wildlife Test (Continued)					
850.2200	Avian Dietary Toxicity Test	45639721 (T) 45639722 (T)	MITSUI CHEMICALS, INC.	OWN	
850.2300	Avian reproduction test	45639723 (T) 45639724 (T)	MITSUI CHEMICALS, INC.	OWN	
Group C - Nontarget Insect Test Guideline					
850.3020	Honey bee acute contact toxicity	45639725 (T) 45639726 (20%) 45639727 (20%)	MITSUI CHEMICALS, INC.	OWN	
850.3030	Honey bee toxicity of residues on foliage	45639728 (20%)	MITSUI CHEMICALS, INC.	OWN	
850.3040	Field Testing for Pollinators (Interim) Field Testing for Pollinators (Final)	47688101 (70%) 48120501† (70%) 48654303† 48739301† (70%) 50147001 (T)	MITSUI CHEMICALS, INC. †MITSUI CHEMICALS AGRO, INC.	OWN	
Non-Guideline	Honey bee oral toxicity	49775901† (T) 48654304† (DN) 48654305† (MNG) 48654306† (NG) 48654307† (UF)	†MITSUI CHEMICALS AGRO, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group C - Nontarget Insect Test Guideline (Continued)					
GDCI-044312-1147 SS-1155	Residues in Pollen and Nectar/Field Residue Analysis	49804301 (20%) 49841001 (20%) 49804302 (20%) 49841002 (20%) 49804303 (20%) 49841003 (20%) 49804304 (20%) 49841004 (20%) 49852701 (20%) 50145701 (20%) 50145702 (20%) 50145703 (20%) 50145704 (20%) 50145706 (20%) 50145707 (20%) 50198501 (20%) 50456901 (20%)	MITSUI CHEMICALS AGRO, INC.	OWN	
GDCI-044312-1147 SS-1156	Pollinator Larval Toxicity Study	49860001 (T)	MITSUI CHEMICALS AGRO, INC.	OWN	
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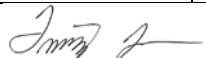
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group D - Nontarget Plants Test Guideline					
850.4100	Terrestrial plant toxicity, Tier I (seedling emergence)	45639729 (20%)	MITSUI CHEMICALS, INC.	OWN	
850.4150	Terrestrial plant toxicity test, Tier II (vegetative vigor)	45639730 (20%)	MITSUI CHEMICALS, INC.	OWN	
850.4400	Aquatic plant toxicity test using <i>Lemna</i> spp. Tiers I and II	45639731 (T)	MITSUI CHEMICALS, INC.	OWN	
Group E - Toxicity to Microorganisms Test Guidelines					
850.5400	Algal toxicity Tiers I and II	45639732 (T) 45639733 (MNG) 45639734 (DN)	MITSUI CHEMICALS, INC.	OWN	
Group F - Field Test Data Reporting Guidelines					
850.6100	Data reporting for environmental chemistry methods	46403802 (T, DN, UF) 50145705 (T, DN, UF)	MITSUI CHEMICALS, INC.	OWN	
Series 860- Residue Chemistry Test Guidelines					
860.1000	Residues in Food or Feed - Residue/Recovery Data by Commodity	50145705 (T, DN, UF)	MITSUI CHEMICALS, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 860- Residue Chemistry Test Guidelines (Continued)					
860.1300	Nature of the residue- plants, livestock	45639735 (T) 45639801 (T) 45639802 (T) 45639803 (T) 45639804 (T) 45639805 (T) 45639806 (T) 45639807 (T)	MITSUI CHEMICALS, INC.	OWN	
860.1340	Residue analytical method	46758701 (T, DN, UF) 46403802 (T, DN, UF) 45639801 (T) 45639808 (T) 45639809 (DN, UF) 45639810 (T) 45639811 (T, DN, UF) 45639812 (T, DN, UF) 45639813 (T, MNG) 45639814 (T, DN, UF) 46132901 (T, DN, UF) 46270901 (T, DN, UF) 46413801 (T, DN, UF) 46758701 (T, DN, UF) 45640119 (T) 48120503† (T) 48654301† (T) 48680301† (T) 48882201† (T) 50145705 (T, DN, UF)	MITSUI CHEMICALS, INC./ † MITSUI CHEMICALS AGRO, INC	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 860 – Residue Chemistry Test Guidelines (Continued)					
860.1360	Multiresidue method	45639815 (T)	MITSUI CHEMICALS, INC.	OWN	
860.1380	Storage stability data	45639816 (DN, UF) 45639817 (T) 45639818 (DN, MNG,UF) 45891614 (T) 45891615 (T) 45915401 (DN, MNG, UF) 45640123 (MNG) 45640124 (T) 48120502† (T) 48654302† (T) 48680302† (T) 48882202† (T)	MITSUI CHEMICALS, INC./ † MITSUI CHEMICALS AGRO, INC	OWN	
860.1460	Food handling	48707102 (A)	BASF Corporation	PER	
860.1480	Meat/milk/poultry/eggs	45891613 (T, DN, UF)	MITSUI CHEMICALS, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 860 – Residue Chemistry Test Guidelines (Continued)					
860.1500	Crop field trials	45639819 (20%) 45639820 (20%) 45654202 (20%) 45891601 (10%, 20%) 45891602 (10%, 20%) 45891603 (10%, 20%) 45891604 (10%, 20%) 45891605 (10%, 20%) 45891606 (10%, 20%) 45891611 (20%) 45891612 (20%) 45891618 (20%) 45891619 (20%) 47814401 (20 %) 47545401 (20%) 48460101† (20%) 48460102† (20%) 48460103† (20%) 48460104† (20%) 48460105† (20%) 48680303† (70%) 48680304† (20%) 48680305† (20%) 50575701 (20%)	MITSUI CHEMICALS, INC./ † MITSUI CHEMICALS AGRO, INC	OWN	
		50636015 (28%)	BASF Corporation	CITE	
860.1520	Processed food/ feed	45639821 (20 %) 45891607 (20 %) 45891608 (20 %) 45891609 (20 %) 48680307† (20%)	MITSUI CHEMICALS, INC./ † MITSUI CHEMICALS AGRO, INC	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 860 - Residue Chemistry Test Guidelines (Continued)					
860.1520	Processed food/ feed	50636016 (28%)	BASF Corporation	CITE	
860.1550	Proposed tolerances	--	MITSUI CHEMICALS, INC.	OWN	
860.1560	Reasonable grounds in support of the petition	--	MITSUI CHEMICALS, INC.	OWN	
860.1850	Confined accumulation in crops	45639822 (20%)	MITSUI CHEMICALS, INC.	OWN	
Group A - Acute Toxicity Test Guidelines					
870.1100	Acute oral toxicity testing	45639823 (T) 45639824 (T)	MITSUI CHEMICALS, INC.	OWN	
870.1200	Acute dermal toxicity	45639901 (T)	MITSUI CHEMICALS, INC.	OWN	
870.1300	Acute inhalation toxicity	45639902 (T)	MITSUI CHEMICALS, INC.	OWN	
Group B - Specific Organ/ Tissue Toxicity Test Guidelines					
870.2400	Primary eye irritation	45639903 (T) 46301601 (T)	MITSUI CHEMICALS, INC.	OWN	
870.2500	Primary dermal irritation	45639904 (T)	MITSUI CHEMICALS, INC.	OWN	
870.2600	Dermal sensitization	45639905 (T)	MITSUI CHEMICALS, INC.	OWN	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group C - Subchronic Toxicity Test Guidelines					
870.3050	Repeated Dose 28- Day Oral Toxicity Study in Rodents	45654203 (T) 45654204 (T)	MITSUI CHEMICALS, INC.	OWN	
870.3100	90-Day oral toxicity - rodent	45654205 (T) 45654206 (T)	MITSUI CHEMICALS, INC.	OWN	
870.3150	90-Day oral toxicity – non-rodent (dog)	45639906 (T)	MITSUI CHEMICALS, INC.	OWN	
870.3200	Repeated dose dermal toxicity - 21/28 days	45639907 (T) 45639908 (T)	MITSUI CHEMICALS, INC.	OWN	
870.3465	Subchronic Inhalation Toxicity	45639909 (T) 46072401 (HCD)	MITSUI CHEMICALS, INC.	OWN	
870.3700	Prenatal developmental toxicity study	45639910 (T) 45639911 (T) 45639912 (T) 45654207 (T) 45654208 (T)	MITSUI CHEMICALS, INC.	OWN	
870.3800	Reproduction and fertility effects	45639913 (T) 45639914 (T)	MITSUI CHEMICALS, INC.	OWN	
Signature 			Name and Title Timothy Joseph Regulatory Agent		Date September 6, 2019

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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DATA MATRIX

Date September 6, 2019			EPA Reg. No./File Symbol 86203-8	Page 13 of 16	
Applicant's/Registrant's Name & Address MITSUI CHEMICALS AGRO, INC. c/o Landis International, Inc. P. O. Box 5126 Valdosta, GA 31603-5126			Product DINOTEFURAN TECHNICAL		
Ingredient DINOTEFURAN (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group D - Subchronic Toxicity Test Guidelines (Continued)					
870.4100	Chronic toxicity	45639915 (T) 45639916 (T) 45654209 (T) 46621601(HCD)	MITSUI CHEMICALS, INC.	OWN	
870.4200	Carcinogenicity	45639917 (T)	MITSUI CHEMICALS, INC.	OWN	
870.4300	Combined chronic toxicity/ carcinogenicity	45640001 (T)	MITSUI CHEMICALS, INC.	OWN	
Group E-Genetic Toxicity Test Guidelines					
870.5100	<i>Escherichia coli</i> WP2 and WP2 uvrA reverse mutation Assays	45654210 (T)	MITSUI CHEMICALS, INC.	OWN	
870.5300	Detection of gene mutations in somatic cells in culture	45640002 (T)	MITSUI CHEMICALS, INC.	OWN	
870.5375	<i>In vitro</i> mammalian cytogenetics	45654211 (T)	MITSUI CHEMICALS, INC.	OWN	
870.5395	<i>In vivo</i> mammalian cytogenetics test Erythrocyte micronucleus assay	45654212 (T)	MITSUI CHEMICALS, INC.	OWN	
870.5500	Bacterial DNA damage or repair tests	45640003 (T)	MITSUI CHEMICALS, INC.	OWN	
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Applicant's/Registrant's Name & Address MITSUI CHEMICALS AGRO, INC. c/o Landis International, Inc. P. O. Box 5126 Valdosta, GA 31603-5126			Product DINOTEFURAN TECHNICAL		
Ingredient DINOTEFURAN (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group F – Neurotoxicity Toxicity Test Guidelines					
870.6200	Neurotoxicity	45640004 (T) 45640005 (T) 44163001 (T) 44163002 (HCD)	MITSUI CHEMICALS, INC.	OWN	
870.6300	Developmental neurotoxicity study (Dose Range Find) Developmental neurotoxicity study (Rat)	47677501 (T) 48291601 (T)	MITSUI CHEMICALS, INC.	OWN	
Group G-Special Studies Test Guidelines					
870.7485	Metabolisms and pharmacokinetics	45640006 (T) 45640007 (T) 47013402 (T)	MITSUI CHEMICALS, INC.	OWN	
870.7600	Dermal penetration	47013401 (T)	MITSUI CHEMICALS, INC.	OWN	
870.7800	Immunotoxicity (Rat) Immunotoxicity (Mouse)	48442101 (T) 48442102 (T)	MITSUI CHEMICALS AGRO, INC.	OWN	
Group B – Postapplication Exposure Monitoring Test Guidelines					
875.2100	Foliar dislodgeable residue dissipation	45640008 (20%) 45640009 (20%) 45640010 (20%)	MITSUI CHEMICALS, INC.	OWN	
Product Performance Test Guidelines					
810.3000	General considerations for efficacy	47466901 (20%) 47581301 (20%) 47817301 (20%)	MITSUI CHEMICALS, INC.	OWN	
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Applicant's/Registrant's Name & Address	MITSUI CHEMICALS AGRO, INC. c/o Landis International, Inc. P. O. Box 5126 Valdosta, GA 31603-5126	Product	DINOTEFURAN TECHNICAL		

Ingredient DINOTEFURAN (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine


Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
40CFR §158.290 Environmental Fate Data Requirements					
835.2120 (161-1)	Hydrolysis	45640101 (T) 45640102 (T) 45640103(MNG) 45640104 (DN)	MITSUI CHEMICALS, INC.	OWN	
835.2240 (161-2)	Photodegradation: Water	45640105 (T) 45640106 (T) 45640107(MNG) 45640108 (DN) 49138301 (T)	MITSUI CHEMICALS, INC.	OWN	
835.2410 (161-3)	Photodegradation: Soil	45640109 (T)	MITSUI CHEMICALS, INC.	OWN	
835.2370 (161-4)	Photodegradation: Air	45640110 (T)	MITSUI CHEMICALS, INC.	OWN	
835.4100 (162-1)	Aerobic soil	45640111 (T) 45640112 (T) 46711201 (T) 46711202 (T) 46751101 (T)	MITSUI CHEMICALS, INC.	OWN	
835.4200 (162-2)	Anaerobic soil metabolism	45891616 (T)	MITSUI CHEMICALS, INC.	OWN	
835.4300 835.4400	Aerobic aquatic metabolism Anaerobic aquatic metabolism	48680002 (T)	MITSUI CHEMICALS AGRO, INC.	OWN	
835.1240 (163-1)	Leaching and adsorption/desorption	45640113 (DN) 45640114 (T) 45640115 (T) 45640116 (MNG)	MITSUI CHEMICALS, INC.	OWN	

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Ingredient DINOTEFURAN (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
40CFR §158.290 Environmental Fate Data Requirements (Continued)					
835.1410 (163-3)	Volatility	45640117 (T)	MITSUI CHEMICALS, INC.	OWN	
835.6100 (164-1)	Dissipation Studies - Field	45640118 (20%) 45891615 (T) 45891610 (20%)	MITSUI CHEMICALS, INC.	OWN	
835.6200	Dissipation Study – Aquatic	48680004 (20%)	MITSUI CHEMICALS AGRO, INC.	OWN	
835.6100 835.6200	Analytical Method Validation – Water, Sediment and Soil	48548801 (T, UF, DN, MNG)	MITSUI CHEMICALS AGRO, INC.	OWN	
835.6100 835.6200	Freezer Storage Stability – Water, Sediment and Soil	48680003 (T, UF, DN, MNG)	MITSUI CHEMICALS AGRO, INC.	OWN	
40 CFR §158.590 Nontarget Insect Data Requirements					
143-1 thru 143-3	Nontarget insect testing: predators and parasites	45640120 (20%) 45640121 (20%) 45640122 (20%)	MITSUI CHEMICALS, INC.	OWN	
All Other Data Requirements					
--	Mineralization of Guanidine Derivatives in Soils	46751103 (T)	MITSUI CHEMICALS, INC.	OWN	
--	Risk Assessment US Forestry Service	47814402 (20%)	MITSUI CHEMICALS, INC.	OWN	
--	A critical review of neonicotinoid insecticides for developmental neurotoxicity	49826501	Bayer CropScience, Nisso America, Inc. Syngenta Crop Protection, LLC, Mitsui Chemicals Agro, Inc. and Valent USA Corp.	OWN	
Signature 			Name and Title Timothy Joseph Regulatory Agent		Date September 6, 2019

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(T) – Study conducted using Technical Formulation**(20%) – Study conducted using 20% Formulation****(10%) – Study conducted using 10% Formulation****(A) – Study conducted using 0.5% Aerosol Formulation****(MNG) – Study conducted using dinotefuran metabolite MNG****(DN) - Study conducted using dinotefuran metabolite DN****(UF) –Study conducted using Dinotefuran metabolite UF****(HCD) – Historical Control Data****(28%) – Study conducted using 28% Formulation**